Supplemental materials

Table S1 Univariate and multivariate logistic analysis as a continuous variable of AGEs concentration

		Model 1*		Model 2†		Model 3‡	
		OR (95% CI)	P value	OR (95% CI)	P value	OR (95% CI)	P value
AGEs (n=131)	concentration	1.29(1.05-1.60)	0.016	1.78(1.22-2.60)	0.003	1.75(1.20-2.57)	0.004

* Model 1: unadjusted.

† Model 2: multivariate adjustment was made for age, malignant cancer family history, body surface area, diabetes.

‡ Model 3: multivariate adjustment was made for age, malignant cancer family history, body surface area, diabetes, Ki-67 value, TNBC, neoadjuvant chemotherapy and adjuvant chemotherapy..

Abbreviations: TNBC, triple-negative breast cancer; AGEs, advanced glycation end products

Table S2 comparisons of characteristics between metastatic subject with or without diabetes

	Total (n=62)	Diabetes (+) (n=21)	Diabetes (-) (n=41)	P Value
Age (year)	54.37±15.55	62.29±3.43	60.32±2.19	0.523
Cancer history (%)	3 (4.84)	1 (4.76)	2 (4.88)	0.990
Body surface area	1.58 (0.02)	1.57±0.02	1.59±0.03	0.663
TNBC (%)	10 (16.13)	3 (14.29)	7 (17.07)	＞0.999
Ki-67 (%)	33.11±3.19	36.50±4.97	32.68±2.84	0.474
Neoadjuvant chemotherapy (%)	6 (9.68)	2 (9.52)	4 (9.76)	＞0.999
Adjuvant chemotherapy (%)	44 (70.97)	13 (61.90)	31 (75.61)	0.376
Serum AGEs (μmol/L)	6.17±0.22	8.12±0.26	5.16±0.15	＜0.0001
Metastatic interval (month)	46.27±6.05	36.67±10.16	51.20±7.50	0.026

Abbreviations: TNBC, triple-negative breast cancer; AGEs, advanced glycation end products

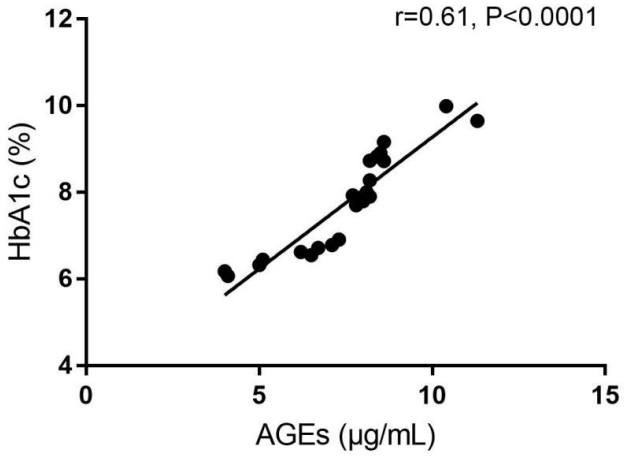
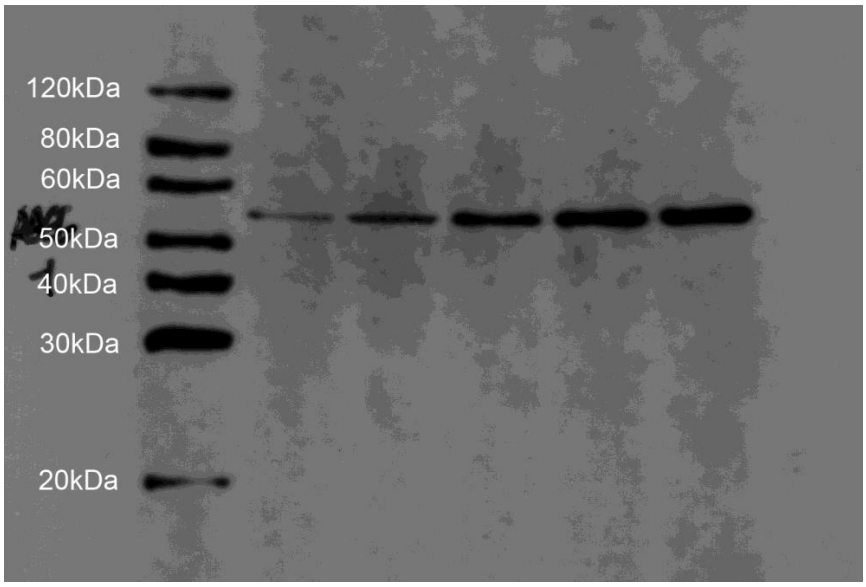
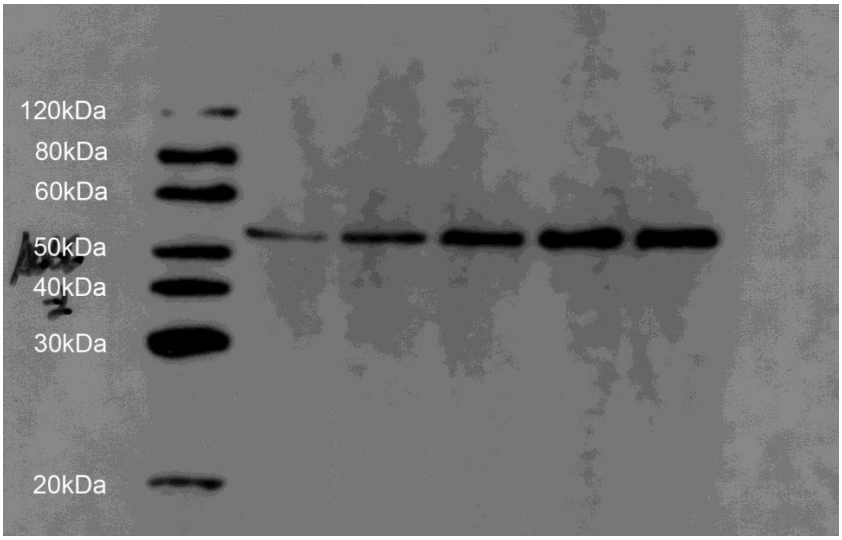


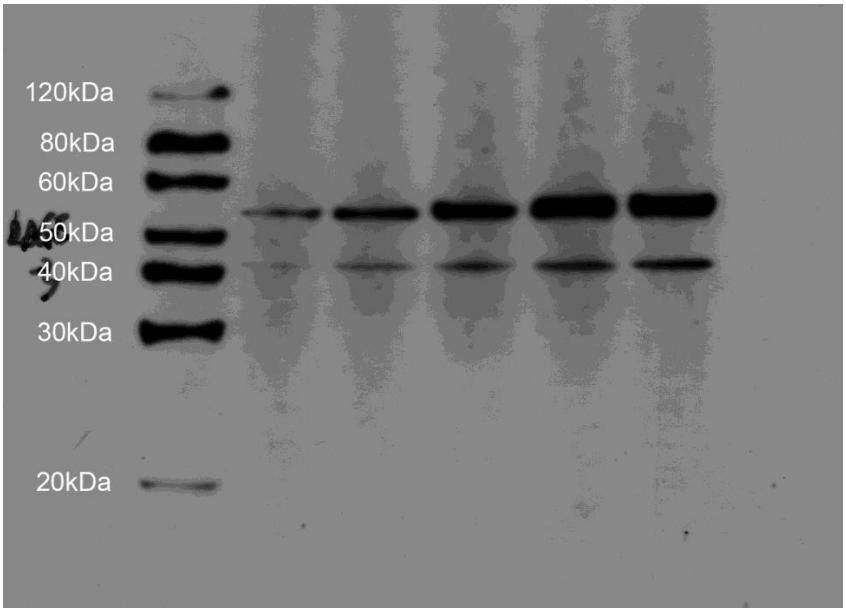
Figure S1: The linear correlation analysis of HbA1c and serum AGEs concentration.
The correlation between AGEs and HbA1c levels was significant (r=0.61, P<0.0001). Abbreviations: HbA1c: glycosylated hemoglobin A1c; AGEs: advanced glycation end products.



FigureS2: Full-size image of WB assay detecting RAGE with primary antibody product from CST (Cat#6996)



FigureS3: Full-size image of WB assay detecting RAGE with primary antibody product from Proteintech (66833-1-Ig)



FigureS4: Full-size image of WB assay detecting RAGE with primary antibody product from Abcam (ab172473)